AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 (original). A method for reducing the viscosity of a viscous composition which is arranged to flow along a fluid flow path, said method comprising contacting the viscous composition with a treatment fluid formulation, said treatment fluid formulation comprising a polymeric material *AA* which includes -O- moieties pendent from a polymeric backbone thereof, wherein polymeric material AA is optionally cross-linked.

2 (original). A method according to claim 1, wherein the viscosity of the viscous composition after contact with the treatment fluid formulation is less than 300cP measured at 25°C and 1000s⁻¹.

3 (currently amended). A method according to claim 1 or claim 2, wherein the viscous composition, after contact with the treatment fluid formulation, exhibits shear thinning.

4 (currently amended). A method according to any preceding claim 1, wherein said viscous composition is an oil.

5 (currently amended). A method according to any preceding claim 4, wherein said treatment fluid formulation is initially contacted with said viscous composition at or downstream of a production means.

6 (original). A method according to claim 5, wherein said fluid flow path is defined by a conduit means which includes a first conduit part which is arranged downstream of a production means.

7 (currently amended). A method according to any preceding claim 1, wherein said fluid flow path extends between a first point, remote from the point of production of the viscous composition, and a second point closer to the point of production of the viscous composition.

8 (currently amended). A method according to any preceding claim 1, wherein said fluid flow path is defined, in part, by a second conduit part which extends upwardly from below ground to above ground.

9 (currently amended). A method according to any preceding claim 1, wherein said treatment fluid formulation is arranged to disperse and/or emulsify said viscous composition on contact therewith.

10 (currently amended). A method according to any preceding claim 1, wherein flow is turbulent at the point of initial contact of said viscous composition with said treatment fluid formulation so that said composition is dispersed and/or emulsified on contact with said formulation.

11 (currently amended). A method according any preceding claim to claim 1, wherein a delivery flow path is defined which is arranged to communicate with said fluid flow path wherein said treatment fluid formulation is dosed into said viscous composition in said fluid flow path via said delivery flow path.

12 (currently amended). A method according to any preceding claim 11, wherein the ratio of the flow rate (in weight per unit time) of treatment fluid formulation in said delivery flow path to the flow rate (in the same units) of viscous composition in said fluid flow path is in the range 0.1 to 2.5.

13 (currently amended). A method according to any preceding claim 12, wherein the amount of water in the composition in said fluid flow path immediately after contact between said viscous composition and said treatment fluid formulation is less than 70wt%.

14 (currently amended). A method according to any preceding claimclaim 1, wherein said treatment fluid formulation has a viscosity at 25°C and 1000s⁻¹ of greater than 1cP and not greater than 50cP.

15 (currently amended). A method according to any preceding claim 1, wherein said treatment fluid formulation includes at least 70wt% water.

16 (currently amended). A method according to any preceding claim 15,

wherein said treatment fluid formulation includes at least 0.2wt% and less than 10wt% of said polymeric material AA.

17 (currently amended). A method according to any preceding claim claim 5, wherein said treatment fluid formulation includes 94.5 to 99.6wt% water and 0.4 to 5.5wt% of said polymeric material AA; and the ratio of the wt% of said treatment fluid formulation to the wt% of said viscous composition contacted in the method is in the range 0.4 to 0.9.

18 (currently amended). A method according to any preceding claim 1, wherein said polymeric material AA is wholly soluble in water at 25°C.

19 (currently amended). A method according to any preceding claim 1, wherein said polymeric backbone of said polymeric material AA includes carbon atoms which are part of -CH₂- moieties.

20 (currently amended). A method according to any preceding claim 2, wherein said polymeric backbone consists essentially of carbon atoms in the form of C-C single bonds.

21 (currently amended). A method according to any preceding claim 4, wherein said treatment fluid formulation includes a hydrogel which is an optionally cross-linked polysaccharide, polyvinylalcohol or polyvinylacetate.

22 (currently amended). A method according to any preceding claim 1, wherein said -0- moieties are directly bonded to the polymeric backbone.

23 (currently amended). A method according to any preceding claim 4, wherein said polymeric material AA includes, on average, at least 10 -0- moieties pendent from the polymeric backbone thereof.

24 (currently amended). A method according to any preceding claim 4, wherein said polymeric material AA includes a moiety:

where G¹ and G² are other parts of the polymeric backbone and G³ is another moiety pendent from the polymeric backbone.

25 (currently amended). A method according to any preceding claim 4, wherein at least 60 mole% of the polymeric material AA comprises vinyl moieties which are optionally cross-linked.

26 (currently amended). A method according to <u>any preceding claim 4</u>, wherein the free bond to the oxygen atom in the -0- moiety pendent from the polymeric backbone of polymeric material AA is bonded to a group R¹⁰ which comprises fewer than 10 carbon atoms and only includes atoms selected from carbon, hydrogen and oxygen atoms.

27 (original). A method according to claim 26, wherein moiety -0- R¹⁰ in said polymeric material AA is an hydroxyl or acetate group.

28 (currently amended). A method according to any preceding claim_claim 1, which involves selecting a said polymeric material AA; selecting a material BB which includes a functional group which is able to react in the presence of said polymeric material AA to cross-link polymeric material AA and form a polymeric material CC; and causing the formation of said polymeric material CC by a reaction involving said polymeric material AA and material BB.

29-30 (cancelled).

31 (currently amended). A method according to any of claims 28 to 30 claim 28, wherein material BB has a general formula:

where G⁵ represents a direct link or a linking moiety.

32-35 (cancelled).

36 (currently amended). A method according to any of claims 28 to 35 claim 28, wherein said material BB comprises:

(i) a first polymeric material having a repeat unit of formula

wherein A and B are the same or different, are selected from optionallysubstituted aromatic and heteroaromatic groups and at least one comprises a relatively polar atom or group and R¹ and R² independently comprise relatively non-polar atoms or groups; or

(ii) a first polymeric material prepared or preparable by providing a compound of general formula

wherein A, B, R¹ and R² are as described above, in an aqueous solvent and causing the groups C=C in said compound to react with one another to form said first polymeric material.

. 37 (cancelled).

38 (currently amended). A method according to <u>any preceding claim claim 4</u>, wherein after the viscous composition has been delivered to a desired location the viscous composition is caused to separate from other components of the treatment fluid formulation.

39 (original). A method according to claim 38, wherein separation is achieved by reducing mixing or turbulent movement of the mixture and allowing the viscous composition to settle out from the water and optionally cross-linked polymeric material AA.

40-41 (cancelled).

- 42 (original). A method of reducing the viscosity of a viscous composition which is arranged to flow along a fluid flow path, said method comprising contacting the viscous composition with a treatment fluid formulation, said treatment fluid formulation includes a polymeric material which:
- (a) is arranged to associate with, for example absorb onto, said viscous composition, especially oil, in order to enable droplets of said viscous composition to be formed and/or stablised; and/or
- (b) is arranged to form a coating (which may be discontinuous) around droplets of said viscous composition;
- (c) is arranged to form a hydrogel which is able to stabilise droplets of said viscous composition, especially oil.

43 (cancelled).

- 44 (new). A method of reducing the viscosity of a viscous petroleum which is arranged to flow along a fluid flow path, said method comprising contacting the viscous petroleum with a treatment fluid formulation, wherein:
- a delivery flow path is defined which is arranged to communicate with said fluid flow path, said treatment fluid formulation being dosed into said viscous petroleum in said fluid flow path via said delivery flow path;
- the ratio of the flow ratio (in weight per unit time) of treatment fluid formulation in said delivery flow path to the flow rate (in the same weight per unit time units) of viscous petroleum in said fluid flow path is in the range 0.1 to 2.5;

- said treatment fluid formulation includes at least 90wt% water and at least 0.2wt% of a polymeric material AA;
 - said polymeric material AA is a polyvinylalcohol polymer or copolymer.

45 (new). A method according to claim 44, wherein:

- said ratio of said flow rates is in the range 0.2 to 1;
- said treatment fluid formulation includes at least 0.5wt% and less than 5.5wt% of said polymeric material AA.
- 46 (new). A method according to claim 45, wherein immediately after contact between said viscous petroleum and said treatment fluid formulation, said fluid flow path contains a composition which includes 40 to 80wt% of material derived from said viscous petroleum and 20 to 60wt% of material derived from said treatment fluid formulation.
- 47 (new). A method according to claim 46, wherein said polymeric material AA comprises polyvinylacetate which has been 60 to 90% hydrolysed to polyvinylalcohol.
- 48 (new). A fluid flow path which contains a fluid comprising petroleum, water and a polymeric material AA which is a polyvinyl alcohol polymer or copolymer.

49 (new). A fluid flow path according to claim 48, said fluid flow path containing a composition which includes 40 to 80wt% of material derived from a viscous petroleum and 20 to 60wt% of water.

50 (new). A fluid flow path according to claim 49, said path extending between a first point, remote from a point of production of viscous petroleum and a second adjacent to the point of production of viscous petroleum.